



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q77569

TANABE, Tadashi, et al.

Appln. No.: 10/663,749

Group Art Unit: 1645

Confirmation No.: 5604

Examiner: Not Yet Assigned

Filed: September 17, 2003

For: ANTIBODIES SPECIFIC TO HUMAN PROSTACYCLIN SYNTHASE

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §§ 1.97 and 1.98**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 CFR §1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form which are all the references of record in parent application No. 10/608,536. Applicant is not submitting duplicate copies of these references but requests that they be listed on the face of any patent granted on the above application. (See 37 CFR §1.98(d)). Copies of any cited copending applications, if not previously submitted, are being submitted herewith.

INFORMATION DISCLOSURE STATEMENT
U.S. APPLN. 10/663,749

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

Respectfully submitted,

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23373

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Date: December 19, 2003

Substitute for Form 1449 A & B/PTO

Complete if Known

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	10/663,749
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Filing Date	September 17, 2003
First Named Inventor	TANABE, Tadashi
Art Unit	1645
Examiner Name	Not Yet Assigned
Attorney Docket Number	Q77569

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of

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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
		US			
		US			
		US			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
		Ngo et al. (1994) Computational Complexity, Protein Structure Prediction, and the Levinthal Paradox. In: The Protein Folding Problem and Tertiary Structure Prediction, Eds. Merz et al., Birkhauser, Boston, MA pages 491-495.	
		Biomodal Distribution of the Prostaglandin I ₂ Synthase Antigen in Smooth Muscel Cells, W. Smith et al., <u>The Journal of biological chemistry</u> , pp. 5922-5926, dtd. 1983	
		Purification, Quantitation, and Localization of PGI ₂ Synthase Using Monoclonal Antibodies, W. Smith et al., pp. 87-92, dtd. 1983	
		Eight Gaddum Memorial Lecture University of London Institute of Education December 1980, Biological Importance of Prostacyclin, S. Moncada, pp. 1-31, dtd. 1982	
		Agonist-Specific Desensitization of PGI ₂ -Stimulated Cyclic AMP Accumulation by PGE ₁ In Human Foreskin Fibroblasts, R. Gorman et al., pp. 3-17, dtd. 1980	
		Cytochrome P-450, Biochemistry, Biophysics and Environmental Implications, Proceedings of the 4 th International Conference on Cytochrome P-450 held in Kuopio, Finland, May 31-June 3, 1992, E. Hietanen et al., eds., pp. 103-106, dtd. 1982.	
		Purification of Prostacyclin Synthase from Bovine Aorta By Immunoaffinity Chromatography, D. DeWitt et al., <u>The Journal of Biological Chemistry</u> , pp. 3285-3293, dtd. 3/18	
		Molecular Characterization of the Prostacyclin Synthase, <u>Advances in Prostaglandin, Thromboxane, and Leukotriene Research</u> , M. Inoue, pp. 29-33, dtd. 1987	
		Bovine Prostacyclin Synthase: Purification and Isolation of Partial cDNA, <u>Biochemical and Biophysical communications</u> , B. Pereira et al., pp. 1041-1048, dtd. 1993	
		Structure-function relationships of membrane-bound heme-enzyme, cytochrome P450, Institute for Chemical Reaction Science, Tohoku University, T. Shimizu, pp. 10-15, dtd. 1992	
		Preparation and Assay of Prostacyclin Synthase, <u>Methods in Enzymology</u> , J. Salmon et al., pp. 91-99, dtd. 1982.	

Examiner Signature

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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NON PATENT LITERATURE DOCUMENTS			
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		Molecular Cloning of Prostacyclin Synthase From Bovine Endothelial Cells, <u>Eicosanoids & Other BioActive Lipids in Cancer, Inflammation and Radiation Injury</u> , T. Tanabe et al., pp 137, dtd. 1993	
		Tanabe et al., in "Advances in Prostaglandin, Thromboxany and Leukotriene Research, Vol. 23, 1995, pp. 133-135	
		Govindarajan, et al, The Patology, 7(4): 654-659, 1987	
		Keirse et al., Placenta, 7:37-42, 1986	
		Siegle et al, FEBS Letters, 347:221-225 (1994)	
		Dewitt et al., Methods in Enzymology, vol. 86:240-246, 1982	
		Moonen et al., Europ. J. Obstet. Gynec. Reprod. Biol. 19:151-158, 1985	
		Harlow et al, Antibodies a Laboratory Manual, Cold Spring Harbor Laboratories, 1989, Chap. 8, pp. 283-318	
		Pereira B. et al., "Bovine Prostacyclin Synthase: Purification and Isolation of Partial CDNA" Biochemical and Biophysical Research Communications, Academic Press Inc. Orlando, FL US, vol. 197, No. 3, December 30, 1993; pages 1041-1048 XP000570379 ISSN: 0006-291X Abstract page 1047; Figure 4	
		Satoh K. et al. "Role of prostaglandins in pregnancy-induced hypertension: AM J. Kidney, vol. 17, No. 2, February 1991 (1191-02), pgs. 133-138, XP001062950 PAGE 133.	
		Gryglewski RJ et al, "Prostacyclin and Vascular disease" Philos Trans R Soc Lond B. Biolo. Sci, vol. 294, No. 1072, August 18, 1981 (pages 383-388, XP001062949 page 383.	
		Supplementary European Search Report	

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